

REMARKS

Claim Objections:

The objections to Claims 1, 3-20, 22-28 and 30-34 detailed in the Office Action have been remedied as submitted by the corrections made as specified in the attached amended claims.

Claim rejections under 35 U.S.C. 103(a):

The invention claimed in amended base claims 1, 27, and 28, and dependent claim 30, relate to a miniaturised base station devised for indoor use in a WCDMA network designed with separately field replaceable power supply unit arranged in a support unit and a complete base station unit being designed as a separate docking unit releasably hanged on, and from,, but also releasably locked in a support unit by cooperating snap locking means, which combined functioning together, and at the same time, allows an easy and separate installation/removal of said complete base station unit in/from said support unit on the field, while enabling a secure assembly of the complete base station unit preventing the complete base station unit from inadvertent movement during installation/removal on the field without the need of further fastening means.

Claim 1 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Costa et al (US 6126128 A) in view of Shapira et al (US 6640110 B1).

Costa still only discloses a mounting bracket for attaching a cellular phone base station to a fixed object including adjustment devices so that the base station may be accurately directed, or aimed, after installation. The bracket includes structural features which cooperate with an electrical box to enable the box to be installed by a single service technician e.g. by means of snap fit means of bubbled portions 63 fitting loosely into openings 64 enabling the housing 53 to be **only temporarily** secured to the mounting assembly 1 so that the service technician can release the housing 53, and, then, the service technician can finally firmly secure the housing 53 to the mounting assembly 1 by threading locking screws 65 into threaded holes 27A and 27B of the first upper and second lower members 23 and 24 of the mounting assembly 1.

Hence, Costa can undoubtedly not be considered to have the claimed features/functions of claims 1, 27 and 28, i.e. the combination of features allowing an easy and separate

installation/removal of said complete base station unit in/from said support unit on the field, while, at the same time, enabling a secure assembly of the complete base station unit preventing the complete base station unit from inadvertent movement during installation/removal on the field without the need of further fastening means.

The invention claimed in pending claims 1, 27 and 28 differs from Costa in that it discloses:

- a complete base station unit being designed as a separate docking unit locked in said support unit and releasably hanging on, and from, said support unit,
- a separately field replaceable power supply unit arranged in said support unit and
- snap locking means arranged in said support unit and base station unit, allowing an easy and separate installation/removal of said complete base station unit in/from said support unit in the field,
- which combined functions and features, at the same time, enable secure assembly of the complete base station unit preventing the complete base station unit from inadvertent movement during installation/removal on the field without the need of further fastening means.

The effect of these differences is that it allows an easy and separate installation/removal of said complete base station unit in/from said support unit in the field, while, at the same time, it enables secure assembly of the complete base station unit preventing the complete base station unit from inadvertent movement during installation/removal in the field without the need of further fastening means. Hence, the objective problem to be solved must be considered as: How to provide for easy and separate installation and removal of a base station in the field, while, at the same time, providing secure assembly of the base station unit preventing the base station unit from inadvertent movement during installation/removal in the field without the need of further fastening means?

The OA still considers that the mounting assembly 1 of Costa, i.e. the third bracket 4, is equal to the support unit claimed in claim 1 and 27. The OA also still considers that the base station elements 53-54 in Costa is designed as a docking unit to be installed by snap locking to the bracket. We respectfully disagree as the mounting assembly of Costa is temporarily installed in a first step and secured in a final assembly step by fixing it in place by threading screws to hold

it securely in place, this is not an easy and secure instalment as defined in claims 1 and 27 of the present invention, which invention eliminates the need of further fastening means for secure assembly.

Hence, the base station in Costa is not a portable base station suitable for easy docking and removal, as it has to be firmly secured in a second step of assembly by screws 65 tightened into holes 27A and 27B, see the first step of assembly described in column 6 on lines 42-54 and the second final step of actually securing the Costa base station is described in the same column 1 on line 55 to column 7 on line 8. Hence, Costa does **not** disclose a complete base station unit being designed as a separate docking unit releasably locked in said support unit, which enables easy and separate instalment and removal of the complete base station on the field, while, at the same time, enables secure assembly of the complete base station unit preventing the complete base station unit from inadvertent movement during installation/removal on the field without the need of further fastening means, as the device for installation in Costa requires further fastening means besides the snap means 63, 64 in the form of screws 65 threaded into threaded holes 27A, 27B.

The OA notices, once again, that the bracket of Costa is silent on further limitation that the support unit includes a power supply unit. However, the OA considers that this detail is disclosed by Shapira disclosing a scalable telecommunication device wherein the support unit include a cavity including a power supply PCB 116 housed therein, i.e. a power supply unit.

However, as clarified in new claims 1, 27 and 28, the power supply unit is a separately field replaceable unit for power supply. This is at least explained on page 2 in paragraph [0057]; on page 3 in paragraph [0058]; on page 4 in paragraphs [0075], [0076] and [0077]; and on page 8 in the first lines of paragraph [0081] and paragraph [0083] of the description of the present invention. The examiner does not consider the circumstance that the mounting bracket 401 includes the separately field replacable power supply unit 303, and that the bracket 401 is only a mounting detail and not a docking station, for receiving said complete base station unit 402 designed as a separate docking unit, which is electrically coupled to the separate power supply unit 303 when the base station is to be operative after the mechanical assembly of all the

separate parts making up the base station. This is also clearly understood when viewing Figs 3A to 5 while reading the description of the present invention.

The Examiner still considers that the combined teaching of Costa and Shapira would have rendered obvious the invention of claims 1 and 27 to implement scalable base station design for improving the flexibility in implement and upgrading a base station. We disagree with this statement. A skilled person looking for an easy way to install and remove a base station separately from the mounting bracket and its integrated power supply unit would not combine a document disclosing a mounting bracket with the scalable base station disclosed by Shapira, as Shapira does not disclose a solution to the problem of easy and separate installation and removal of parts of a base station. This is at least due to the fact that Shapira only discloses a transmission block 110 with an integrated power supply 116 and not a separately field replaceable power supply unit that in turn is to be electrically connected and disconnected to a separately field replaceable complete base station. Hence, Shapira only discloses a Transmission block 110 with power supply housed therein, which block 110 corresponds to our whole base station, i.e. the Pico Node B 100. Transmission block 110 with the integrated power supply 116 do not correspond to our separately field replaceable complete base station 402 that may be connected and disconnected from the separately field replaceable power supply unit 303 included in the separate mounting bracket 401.

Even if a skilled person were to combine Costa and Shapira, contrary to expectation, the combined product, network or method of installing and removing parts making up a base station would not become or provide a docketed base station 402 that is a separately field replaceable unit for connection and disconnection to another separately field replaceable unit, i.e. the power supply unit 303 included in the mounting bracket 401. There is no teaching in Shapira leading the skilled person to the solution of moving the power supply to the mounting bracket and making also the power supply 116 into a separately field replaceable unit as defined in claims 1, 27 and 28. It can therefore not be obvious to do such a combination.

Finally the mounting bracket disclosed by Costa does not disclose any snap locking means arranged in said support unit and base station unit, allowing an easy and separate installation/removal of said complete base station unit in/from said support unit on the field,

while, at the same time, enabling a secure assembly of the complete base station unit preventing the complete base station unit from inadvertent movement during installation/removal on the field without the need of further fastening means. Costa only teaches snap locking means for temporary holding the housing of the base station until the housing is finally secured by threading further fastening means in the form of screws into threaded holes. Hence, Costa does not disclose snap locking means suitable for installing the base station in the bracket, but only for facilitating the installation process, before it is firmly secured by said screws, see column 6, last paragraph of Costa.

It must be clear that neither of the cited documents disclose a complete base station designed as a docking unit, or snap locking means for installing a base station with a combination of features and functions allowing an easy and separate installation/removal of said complete base station unit in/from said support unit on the field, while, at the same time, enabling a secure assembly of the complete base station unit preventing the complete base station unit from inadvertent movement during installation/removal on the field without the need of further fastening means. For these reasons, the claimed subject matter would not be obvious in view of the proposed reference combination of Costa and Shapira.

For at least the above reasons it is respectfully submitted that the subject matter that is particularly pointed out and distinctly claimed in base claims 1, 27, and 28, and dependent claim 30, is not obvious in view of Costa, Shapira, Haakana, Stein, Repco, Gibson, Holmes and Tse; and, accordingly, the rejection of claim 1 and of claims 3-20, 22-26, and 30-34 which depend from claim 1, 27 and 28, should be withdrawn and all of claims 1, 3-20, 22-28 and 30-34 should be in condition for allowance.

In the event there are any questions concerning this Amendment, or the application in general, the Examiner is respectfully urged to telephone the undersigned so that prosecution of the application may be expedited.

No additional fees are believed to be due at this time however if necessary to effect a timely response the Commissioner is authorised to deduct the necessary fees from Deposit account No. 501249.

Respectfully submitted,

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